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§Uva-ursi G syn fl 2 27; Daphnidostaphylis Klotzsch.

A UVA-URSI L

Bear berry—not reaching So. Calif.

ARCTOSTAPHYLOS TOMENTOSA Lindl. Wooly Manzanita.

da 10

ARCTOSTAPHYLOS MANZANITA Parry. The common Manzanita of California. The berries make excellent sauce, and the finest quality of vinegar; much eaten by Indians.

Manzanita is a Spanish name, the diminutive of manzana (apple), hence means a "little apple." The name is generally applied to all the species of Arctostaphylos, and a writer in Meehan's Monthly (3:85) uses the name Arbatus Menziesii. The manzanita once so common on the mesas back of San Diego, is Arctostaphylos bicolor. The shrub to which the name more especially belongs in California, and which sometimes becomes a small tree, is that named Arctostaphylos manzanita by Dr. Charles Christopher Parry—the A. pungens of the earlier writers on California botany. This manzanita is common from Mexico to Oregon, through the foothills and mountains, in dry, rocky soil. The fruit is a dull red, mealy, and pleasantly sub-acid, well-named by the Mexicans the "little apple," though botanically a near relative of the cranberry instead of the apple. The Indians gather the fruit in September in great quantities for food, and it is eaten freely by animals and birds. It makes excellent jelly, and the finest flavored vinegar, as clear as water, may be prepared from the fruit. The numerous other varieties of manzanitas all produce more or less similar edible fruit. and are all mostly small, straggly evergreen shrubs, graceful in their own peculiar way, and bearing in earliest spring time a profusion of lovely white blossoms, sometimes blushing a rosy red in a snowstorm.

ARCTOSTAPHYLOS PRINGLEI Parry.

"Young branches, including the petioles and margins of the leaves, copiously ciliate-pubescent, with mixed glandular hairs leaves short, petiolate, glaucous, minutely net-veined, with conspicuous mid-nerves, ovate to broadly subcordate, abruptly short mucronate; inflorescence closely paniculate from a thickened base, intermixed with budscales, indicating a late flowering period, racemose branches slender, thickly covered as well as the bracts, pedicles and calyx, with ciliate and glandular hairs, bracts lanceolate membraneous, petaloid, deciduous, bracteoles linear nearly ⅓ as long, pedicels slender, divaricate, 4-5 times as long as the bracts, calyx ciliate-glandular, corolla smooth, broadly urceolate: ovary and fr. glandular, hispid, nutlets irregularly coalescent, 5-7-celled."—Parry. Bull. Cal. Acad. Sci. ii. 494 (Nov. 2, 1887).

Variety? drupacea Parry Ca ac b 2 495: —' Differing from the above only in the completely consolidated stone, deeply sculptured, & usually with a conspicuous 1-sided furrow. Mts east of San Diego; Or 543; S 1886, distributed as A glauca."

§Xylococcus G

ARCTOSTAPHYLOS GLAUCA Lindl. The great-berried Manzanita.

Py Dav ac pr 4 34; Ca ac b 2 495;da 10

ARCTOSTAPHYLOS BICOLOR A. Gray.

Densely branched irregular shrub, 3–5 ft high, with brown shreddy bark; leaves dull green above, whitish tomentose beneath; fls in condensed racemes, w with

TRILLIUM SESSILE Linn.

ERYTHRONIUM GRANDIFLORUM

CALOCHORTUS VENUSTUS Dougl.

CALOCHORTUS PULCHELLUS Dougl.

a pinkish tinge; fr often persistent until 2d fl'ing in F, smooth & shining, deep p-red, 4½ lines in diameter; copious and rather dense granular pulp; putamen smooth externally, solid, 5-celled, 1 or more abortive. Or s j Py Dav ac pr 4 34; Xylococcus bicolor Nutt, Py Ca ac b 2 496. Arc clevelandi G?

ARCTOSTAPHYLOS PARRYANA Lmn.

"A much branched shrub, 3–5° high: foliage coriaceous, bright green; blade ovate or oblong ½–1′ long, acute or obtuse, entire, conspicuously impressed veiny; petioles slender, ¼–⅓′ long: inflorescence paniculate corymbose, the pedicels & bracteoles w-tomentose: bracts foliaceous, narrow; bracteoles 2 or 3 lines long, deltoid, with callous tips: segments of the rotate calyx obtuse: fr ovate or globose, ¼–⅓′ long, y'ish; exocarp smooth & glabrous, rather thin; endocarp of from 5–7 firmly united bony carpels, apiculate at each end, & marked with longitudinal ridges corresponding with the back of the carpels: seeds 2 lin. long, incurved, w. Tehachapi mts."—Lemmon pitt 2 68

§Comarostaphylis G:—fr warty, putamen solid, 5-celled.

A ARGUTA Zucc. v. diversifolia Parry.

"Shrub 6–15 ft high; stems 1–3 inches in diameter, with light gray bark slightly furrowed, on the upper branches shreddy, & on the young, growing shoots tomentose; leaves varying greatly in size & form, according to position or season of growth; in young, vigorous offshoots or suckers, broably lanceolate, 3½′ long by 1½′ broad. smooth on both sides, reticulate, scarcely at all revolute; on the upper & fl'ing branches, narrowly lanceolate, strongly revolute, & tomentose beneath, in all more or less irregularly serrate, with mucronate cartilaginous teeth & short petioles. Inflorescence racemose, from the axils of the upper terminal leaves, secund & horizontal, rachis, bracts, pedicels, and calyx long tomentose; bracts about ½ as long as the pedicels, corolla 3 lines long, stamens 10 (occasionally 8), filaments bearded below, anther appendages about as long as the anthers; style shortly exserted; ovary hairy hispid above. Fr small, 2 lines broad, warty, with a solid 5-celled putamen cells more or less abortive. Needs comparison with the Mexican type, which probably includes several published species."—Parry Dav ac pr 4 35.

Or s j A polifolia B-W non HBK.

A colored portrait of this in Datos para la materia medica Mexicana, (pt 3 11) well represents our shrub. It enjoys in m the names madronyo borracho, and garambullo—the latter name in j is applied to Cereus sargentianus—and is in medicinal repute.

§Micrococcus Py Dav ac pr 4 36:—Fr with thin pericarp, without mealy pulp, wrinkled at maturity; 4 or 5 nutlets easily separating—in 2 divisions.

*Pericarp persistent, nutlets 2-celled.

ARCTOSTAPHYLOS OPPOSITIFOLIA P

"Shrub 3–10° high, densely branched above, more or less naked below; stems 1–3′ in diameter, with light greenish or gray bark smooth or with loose, shreddy fibers on the upper branches, young shoots minutely tomentose; leaves opposite or ternately whorled, narrowly lanceolate, entire, revolute, 1–2′ long, 2–3″ wide, light green above, minutely tomentose beneath, with a prominent midnerve, the narrow blade gradually tapering to a short or obsolete petiole. Inflorescence paniculate, the lower floral branches in the axils of the upper opposite leaves, which higher up pass gradually into deltoid, more or less acuminate bracts, disposed in whorls of 3 or less at regular intervals, each bract subtending a branch or pedicel, & decurrent as a ridge down the rachis; pedicels 3 or 4

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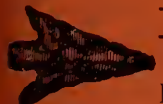

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